

WHAT IS CLAIMED IS:

1. A polarizing plate comprising:
a polarizer formed with a hydrophilic polymer film and
a protective film laminated on at least one surface of the polarizer,
wherein the polarizing plate satisfies a relationship of $0.01 \leq A/B \leq 0.16$
where A denotes a thickness of the polarizer and B denotes a thickness of the
protective film.
2. The polarizing plate according to claim 1, satisfying a relationship of $0.05 \leq A/B \leq 0.16$ where A denotes a thickness of the polarizer and B denotes a thickness of the protective film.
3. The polarizing plate according to claim 1, wherein thickness of the protective film is at least $80 \mu\text{m}$.
4. The polarizing plate according to claim 3, wherein thickness of the protective film ranges $80 \mu\text{m}$ to $200 \mu\text{m}$.
5. The polarizing plate according to claim 1, wherein the protective film is a triacetylcellulose film.
6. The polarizing plate according to claim 1, wherein the protective film and the polarizer are attached by an adhesive.
7. The polarizing plate according to claim 6, wherein the adhesive is a polyvinyl alcohol-based adhesive.
8. The polarizing plate according to claim 1, wherein an additional adhesive layer is formed on at least one surface of the polarizing plate.
9. The polarizing plate according to claim 1, wherein the polarizing plate has a dimensional change rate of not more than $\pm 0.7 \%$ in a longitudinal direction (MD) after being heated at 70°C for 120 hours.
10. The polarizing plate according to claim 1 further comprising, at least one optical layer selected from a reflector, a transreflector, a retardation plate,

a lambda plate, a viewing angle compensating film, and a brightness-enhanced film.

11. The polarizing plate according to claim 10, wherein the polarizing plate and the optical layer are laminated through an adhesive layer.

12. The polarizing plate according to claim 10, wherein the optical layer is a reflector.

13. The polarizing plate according to claim 10, wherein the optical layer is a transreflector.

14. The polarizing plate according to claim 10, wherein the optical layer is a retardation plate.

15. The polarizing plate according to claim 10, wherein the optical layer is a lambda plate.

16. The polarizing plate according to claim 10, wherein the optical layer is a viewing angle compensating film.

17. The polarizing plate according to claim 10, wherein the optical layer is a brightness-enhanced film.

18. The polarizing plate according to claim 1, wherein, when the polarizer is heated at 80°C for 30 minutes, the shrinkage force in an absorption axis direction is at most 4.0 N/cm.

19. The polarizing plate according to claim 18, wherein, when the polarizer is heated at 80°C for 30 minutes, the shrinkage force in an absorption axis direction ranges 1.0 N/cm to 3.7 N/cm.

20. The polarizing plate according to claim 1, wherein the polarizer thickness is at most 25 μ m.

21. The polarizing plate according to claim 1, wherein the polarizer thickness ranges from 10 μ m to 18 μ m.

22. The polarizing plate according to claim 1, wherein the hydrophilic polymer film before being stretched is a polyvinyl alcohol-based film.
23. The polarizing plate according to claim 22, wherein the polyvinyl alcohol-based film thickness is at most $60\text{ }\mu\text{m}$.
24. The polarizing plate according to claim 22, wherein the polyvinyl alcohol has an average polymerization degree ranging from 500 to 10000, and an average saponification degree of at least 75 mol %.
25. The polarizing plate according to claim 1, wherein the polarizer is formed by dyeing, crosslinking, stretching and drying a hydrophilic polymer film.
26. The polarizing plate according to claim 1, wherein the polarizer is formed by a method comprising:
dyeing a hydrophilic polymer film before being stretched,
subjecting the film to a swelling treatment,
subjecting the film to a crosslinking treatment,
stretching the film and
drying the film,
wherein thickness of the hydrophilic polymer film before being stretched is at most $75\text{ }\mu\text{m}$.
27. The polarizing plate according to claim 26, wherein the stretching of the film is conducted in water, and the crosslinking treatment is conducted with a crosslinking agent.
28. The polarizing plate according to claim 26, wherein the stretching of the film is conducted in a traverse direction, and subsequently in a longitudinal direction.
29. The polarizing plate according to claim 26, wherein the stretching of the film comprises stretching the film, relaxing stress of the film after stretching the film, and subsequently stretching the film.

30. A liquid crystal display comprising the polarizing plate according to claim 1 and a liquid crystal cell, wherein the polarizing plate is disposed on at least one surface of the liquid crystal cell.

31. The liquid crystal display according to claim 30, wherein the liquid crystal cell comprises at least one substrate selected from a glass substrate and a plastic substrate.